

I. GENERAL

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 175 AND WINMEYER AVENUE IN ANNE ARUNDEL COUNTY. AUDIBLE PEDESTRIAN PUSHBUTTON STATIONS, COUNTDOWN PEDESTRIAN SIGNAL HEADS, ADA RAMP, AND CROSSWALK SHALL BE INSTALLED ACROSS THE WEST LEG OF INTERSECTION. NEW ADA RAMP SHALL BE INSTALLED FOR SOUTH CROSSING OF THE INTERSECTION. MD 175 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THE MAINLINE OPERATES UTILIZING EXCLUSIVE/PERMISSIVE LEFT TURN PHASING. THE SIDE STREETS FOR THIS LOCATION OPERATE UTILIZING SPLIT PHASING FOR WINMEYER AVENUE AND THE ODENTON LIBRARY ENTRANCE. AN ALTERNATE PEDESTRIAN PHASE WITH AUDIBLE PEDESTRIAN SIGNALS SHALL BE PROVIDED TO CROSS MD 175 ACROSS THE WEST LEG.
- AN EXISTING NEMA FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS LOCATION.

SPECIAL NOTES

- APS WILL FUNCTION AS FOLLOWS TO CROSS MD 175 (ANNAPOLIS ROAD):
 - WHEN A PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE AUDIBLE MESSAGE WILL BE "WAIT TO CROSS ANNAPOLIS AT WINMEYER. CROSSWALK ANGLES RIGHT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACTS

DISTRICT

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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MR. MIKE HUBER
UTILITY ENGINEER
410-841-1039

MR. JAMES FOLDEN
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-841-1031

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7670

MS. DARLENE EIDE
CHIEF, OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING APPLICABLE STANDARDS FROM CATEGORY 1 OF SHA'S BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

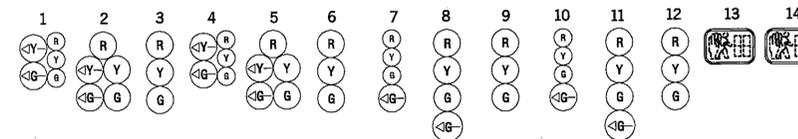
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9570	SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF: R4-7 (24" X 30") W11-2 (30" X 30") W16-7pL (24" X 12") W16-7pR (24" X 12")	SF	22
		EA	1
		EA	2
		EA	1
		EA	1
9571	SHEET ALUMINUM POLE MOUNTED SIGNS CONSISTING OF: R10-3(1) (9" X 15")	SF	2
		EA	2
9572	SHEET ALUMINUM SPAN WIRE MOUNTED SIGNS CONSISTING OF: D-3(1) (VAR. X 16")	SF	22
		EA	2

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1003	MAINTENANCE OF TRAFFIC	EA	1
2001	CLASS 2 EXCAVATION	CY	16
2002	TEST PIT EXCAVATION	CY	1
5004	12" HEAT APPLIED WHITE PERM PREF THERMO PVMT MARKINGS	LF	250
5005	24" HEAT APPLIED WHITE PERM PREF THERMO PVMT MARKINGS	LF	80
5007	REMOVAL OF EXISTING PERM PVMT LINE MARKINGS, ANY WIDTH	LF	110
6001	STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN, 8" DEPTH	LF	170
6002	5 IN. CONCRETE SIDEWALK	SF	655
8001	2 WIRE CENTRAL CONTROL UNIT	EA	1
8007	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	2
8008	BREAKAWAY PEDESTAL POLE (ANY SIZE)	EA	2
8013	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	EA	1
8021	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT	EA	1
8033	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED	LF	30
8035	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED	LF	30
8036	WOOD SIGN SUPPORTS UP TO 4 X 6	LF	53
8037	DETECTABLE WARNING SURFACES	SF	60
8038	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCL. ALL HARDWARE)	SF	46
8040	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	90
8046	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1
8054	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	300
8056	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	350

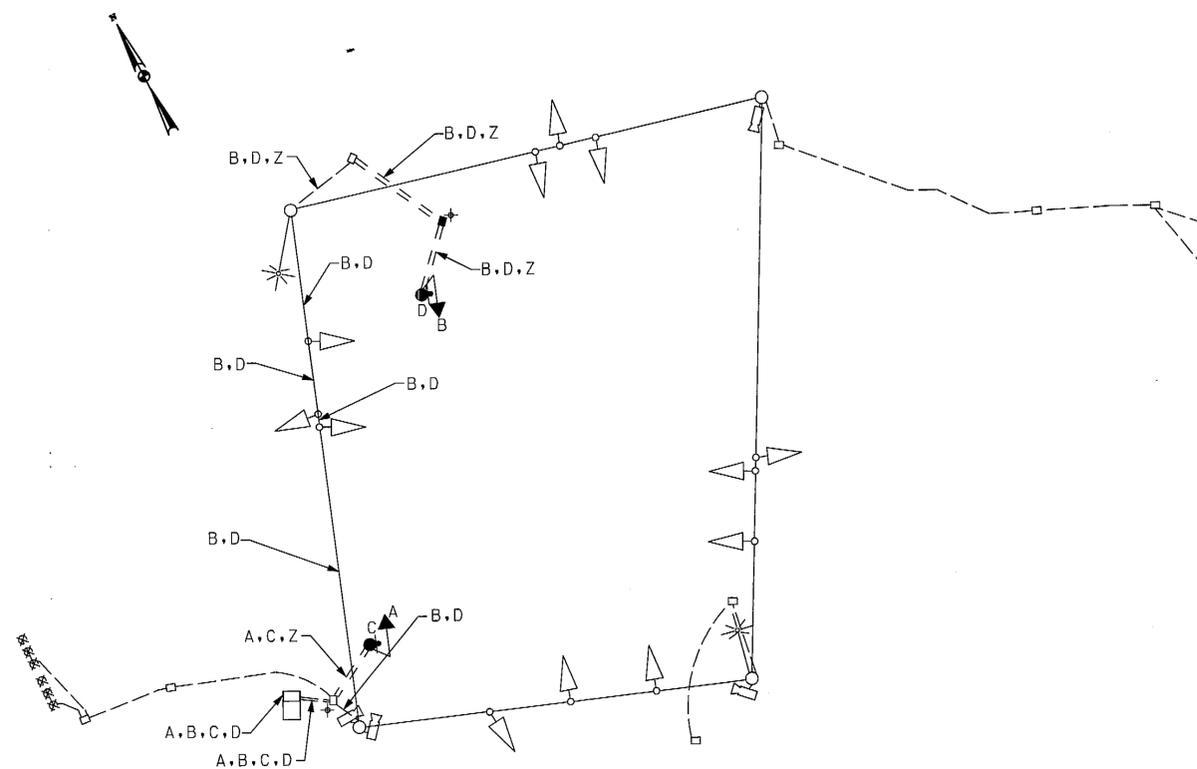
- IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



PHASE 1 AND 5	<-GR	<-GR	R	<-GR	<-GR	R	R	R	R	R	R	R	R	R	DW	DW
1 AND 5 CHANGE	PHASE 1 AND 5 MAY CHANGE TO PHASE 1 AND 6, 2 AND 5 OR 2 AND 6															
PHASE 1 AND 6	R	R	R	<-GG	<-GG	G	R	R	R	R	R	R	R	R	DW	DW
1 CHANGE	R	R	R	<-YG	<-YG	G	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 5	<-GG	<-GG	G	R	R	R	R	R	R	R	R	R	R	R	DW	DW
5 CHANGE	<-YG	<-YG	G	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	<-GG	<-GG	G	DW	DW	
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	
PHASE 3 ALT	R	R	R	R	R	R	R	R	R	R	<-GG	<-GG	G	FL/DW	FL/DW	
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	<-GG	<-GG	G	FL/DW	FL/DW	
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	
PHASE 4	R	R	R	R	R	R	<-GG	<-GG	G	R	R	R	R	DW	DW	
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	R	DW	DW	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FL/R	DARK	DARK							

WIRING DIAGRAM



KEY

- A) 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B) 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C) 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- D) 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- Z) STRANDED COPPER GROUND WIRE (NO. 6 AWG)
- + GROUND ROD

TOD No: XX447-17
SHA No: AA756A58/B58
MD 175 @ Winmeyer Avenue

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 175 AT WINMEYER AVENUE
ODENTON, MD.

GENERAL INFORMATION

SCALE	N.A.	DATE	JULY 2010	CONTRACT NO.	XX4475185
DESIGNED BY	J. WOOD	COUNTY	ANNE ARUNDEL		
DRAWN BY	J. WOOD	LOGMILE	0207503.44		
CHECKED BY	A. GRIFFIN MF	TMS NO.	H-355		
FAP NO.		TOD NO.			
TS NO. 1639C	DRAWING	OF		SHEET NO. 2	OF 3

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